EM Waves _G 11

1. No matter what type of wave, ALL WAVES transfer _____, they DO NOT transfer _____ .

2. What is the difference between a mechanical wave and electromagnetic wave ?

3. Drag and Drop

Mechanical Wave	Both	EM Wave

Carries energy	Longitudinal waves	Transverse waves	Can travel in vacuum
Has a frequency	Fastest in solids	Slowest in gases	Fastest in gases
Slowest in solid	Sound waves	Require a medium	Do not require a medium

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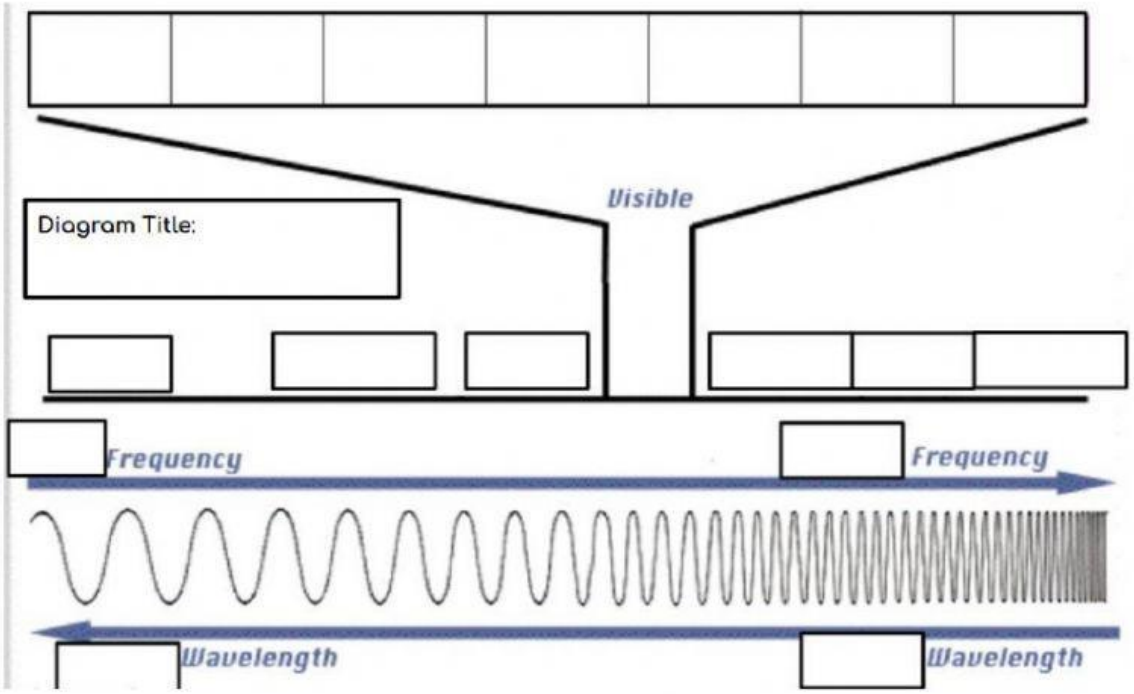
4. Drag and Drop



Radio Wave | Infrared Wave | long | short | UV Wave | X-Ray | Gamma Ray | low

blue | yellow | red | indigo | violet | Micro Wave | high

orange | The Electromagnetic Spectrum | green

5. The shorter the wavelength the _____ the frequency and the _____ the energy.
6. Which wave carries the most energy and has the highest frequency ?
7. What waves can penetrate through your body and cause damage ?
8. What properties of these waves lets you know they are harmful to you ?
9. What properties of radio, microwave, infrared and visible light let you know that they are not harmful ?
10. What is the relationship between wavelength, frequency and energy ?

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